

- A. INSTALL OVERHEAD VIDEO DETECTION CAMERA ON EXISTING MAST ARM.
- B. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS PUSHBUTTONS. INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEADS FOR BOTH CROSSINGS. INSTALL APS STATION AND PEDESTRIAN EDUCATION SIGN FOR PUTTY HILL CROSSING.
- C. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH APS STATION, AND PEDESTRIAN EDUCATION SIGN. THE POLE SHALL BE CUT ABOVE THE PEDESTRIAN EDUCATION SIGN. (INSTALL 1-3 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- D. INSTALL 3" PVC SCHEDULE 80 - TRENCHED PRIOR TO SIDEWALK POUR.
- E. INSTALL HANDHOLE.
- F. INSTALL 2-4" AND 2-2" PVC SCHEDULE 80 CONDUITS - TRENCHED.
- G. DISCONNECT AND ABANDON EXISTING LOOP DETECTOR. REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.

1, 4, 7 2, 5, 8 3, 6, 9, 12 7, 8, 10, 11

29

RIGHT
LANE
ENDS
200'

W9-2(4) MOD
30"X42"

A,B,C,D

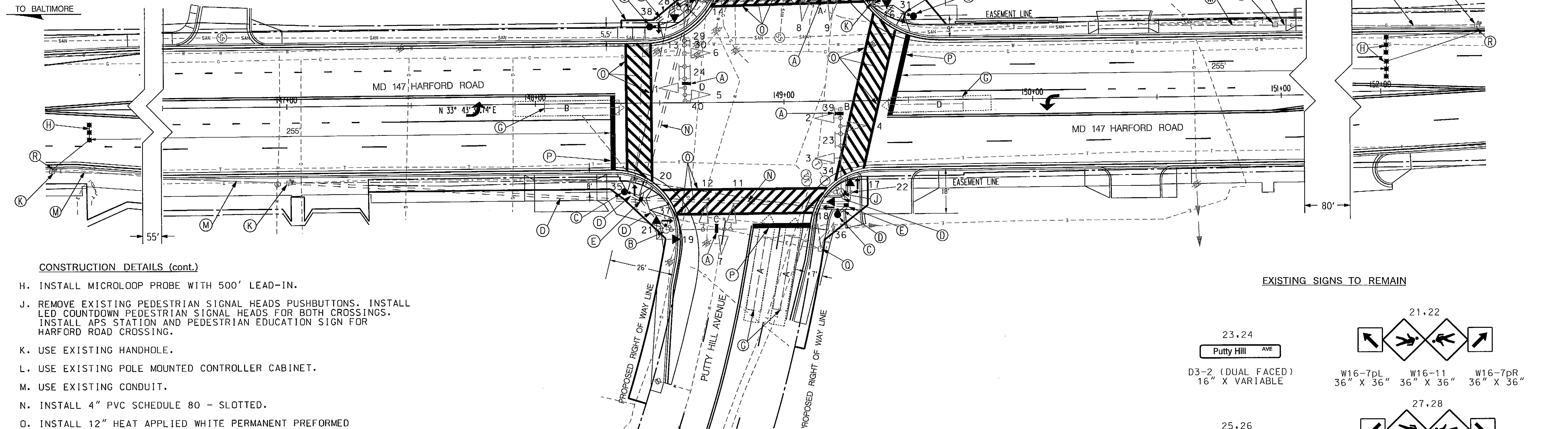
PROPOSED VIDEO DETECTION

LED COUNTDOWN SIGNAL HEAD

31, 34, 35	38	33, 36	32, 37
<p>RED LIGHT TIME REMAINING COUNTDOWN</p> <p>1. VEHICLE COUNT 2. TIME REMAINING 3. RED LIGHT 4. GREEN LIGHT 5. YELLOW LIGHT 6. WHITE LIGHT 7. GREEN LIGHT 8. YELLOW LIGHT 9. WHITE LIGHT 10. GREEN LIGHT 11. YELLOW LIGHT 12. WHITE LIGHT</p> <p>REAR VIEW MOUNTED ON SIGNAL POST</p>	<p>PURPLE LIGHT TIME REMAINING COUNTDOWN</p> <p>1. VEHICLE COUNT 2. TIME REMAINING 3. PURPLE LIGHT 4. GREEN LIGHT 5. YELLOW LIGHT 6. WHITE LIGHT 7. GREEN LIGHT 8. YELLOW LIGHT 9. WHITE LIGHT 10. GREEN LIGHT 11. YELLOW LIGHT 12. WHITE LIGHT</p> <p>REAR VIEW MOUNTED ON SIGNAL POST</p>	<p>PURPLE LIGHT TIME REMAINING COUNTDOWN</p> <p>1. VEHICLE COUNT 2. TIME REMAINING 3. PURPLE LIGHT 4. GREEN LIGHT 5. YELLOW LIGHT 6. WHITE LIGHT 7. GREEN LIGHT 8. YELLOW LIGHT 9. WHITE LIGHT 10. GREEN LIGHT 11. YELLOW LIGHT 12. WHITE LIGHT</p> <p>REAR VIEW MOUNTED ON SIGNAL POST</p>	<p>PURPLE LIGHT TIME REMAINING COUNTDOWN</p> <p>1. VEHICLE COUNT 2. TIME REMAINING 3. PURPLE LIGHT 4. GREEN LIGHT 5. YELLOW LIGHT 6. WHITE LIGHT 7. GREEN LIGHT 8. YELLOW LIGHT 9. WHITE LIGHT 10. GREEN LIGHT 11. YELLOW LIGHT 12. WHITE LIGHT</p> <p>REAR VIEW MOUNTED ON SIGNAL POST</p>

R10-3(1) 9"x15"
APS 5"x7"

TO BALTIMORE



- H. INSTALL MICROLOOP PROBE WITH 500' LEAD-IN.
- J. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS PUSHBUTTONS. INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEADS FOR BOTH CROSSINGS. INSTALL APS STATION AND PEDESTRIAN EDUCATION SIGN FOR HARFORD ROAD CROSSING.
- K. USE EXISTING HANDHOLE.
- L. USE EXISTING POLE MOUNTED CONTROLLER CABINET.
- M. USE EXISTING CONDUIT.
- N. INSTALL 4" PVC SCHEDULE 80 - SLOTTED.
- O. INSTALL 12" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.
- P. INSTALL 24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.
- Q. REMOVE EXISTING HANDHOLE, CAP AND ABANDON EXISTING CONDUIT.
- R. INSTALL 1" LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT. (FOR DETECTOR WIRE SLEEVE).

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
2. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
3. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
4. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
5. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
6. THE TACTILE ARROW FOR THE AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTONS SHALL BE LOCATED PARALLEL TO THE CROSSWALK FOR WHICH THEY APPLY.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SIGNAL OPERATION DURING THE COMPLETE CONSTRUCTION PERIOD.

23, 24

Putty Hill AVE

D3-2 (DUAL FACED)
16" X VARIABLE

W16-7pL 36" X 36" W16-11 36" X 36" W16-7pR 36" X 36"

25, 26

Harford RD

D3-2 (DUAL FACED)
16" X VARIABLE

W16-7pR 36" X 36" W16-11 36" X 36" W16-7pL 36" X 36"

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 147 HARFORD ROAD AND
PUTTY HILL AVENUE

SCALE <u>1" = 20'</u>		DATE <u>NOT AVAILABLE</u>		CONTRACT NO. <u>NOT AVAILABLE</u>	
DESIGNED BY _____		COUNTY <u>BALTIMORE</u>			
DRAWN BY <u>NOT AVAILABLE</u>		LOG MILE _____			
CHECKED BY <u>NOT AVAILABLE</u>		T.I.M.S. NO. _____			
F.A.P. NO. _____		TOD NO. _____			
DRAWING NO. <u>SG - 2.7</u>		OF <u>2.12</u>		SHEET NO. <u>241</u> OF <u>291</u>	



UTILITY LEGEND

—SD—	SD—	STORM DRAIN
—G—	G—	GAS MAIN
—W—	W—	WATER MAIN
—S—	S—	SEWER MAIN
—E—	E—	ELECTRIC CABLES
—A—	A—	AERIAL CABLES
—T—	T—	TELEPHONE CABLES
—F—	F—	FIBER-OPTIC

BY: amym

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